



### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

JOHN C. PARKS, ET AL.

SERIAL NO.: 09/888,246

FILED: JUNE 22, 2001

FOR: IMPROVED BROMINATION

**PROCESS** 

Commissioner for Patents Washington, DC 20231

DATE: August 23, 2001

**GROUP ART UNIT: 1616** 

EXAMINER: NOT ASSIGNED

# 2

Sir:

Attached herewith for consideration by the Examiner is an Information Disclosure Form PTO-1449 (modified). A copy of each listed document should be in the file of the parent application Serial Number 09/658,983, filed June 4, 1996 of which the present application is a Continuation. However, if additional copies are needed, they will be supplied on request. A copy of WO 96/08457 A1 and WO 96/15087, identified as AL and AM on Page 7 of the attached, and U.S. Patent 5,457,248, identified as AD on Page 9 of the attached, are enclosed.

Respectfully submitted,

Edgar E Spielman, Jr.

Reg. No. 25,929

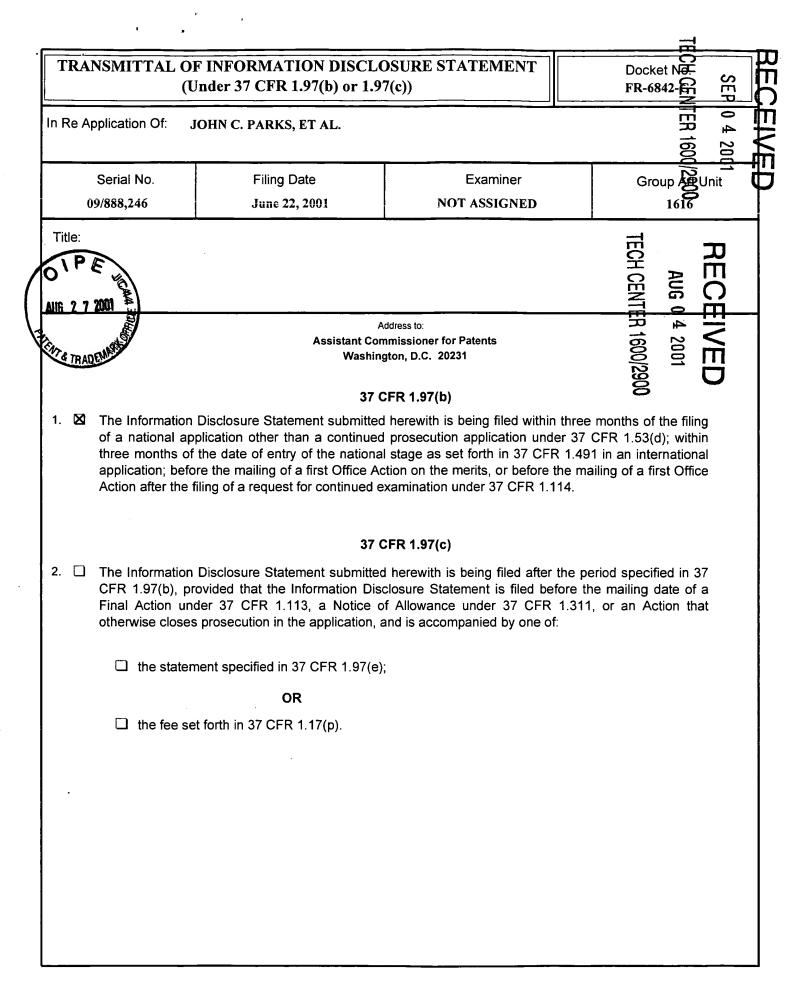
Attorney for Applicant(s)

Telephone:

(225)388-7604

Facsimile:

(225)388-7239



(	DF INFORMATION DISCLO Under 37 CFR 1.97(b) or 1.97  JOHN C. PARKS, ET AL.  Filing Date June 22, 2001	! ! !	FR-6842-CH FR-6842-CH BR 600 Group Ar	SEP 0 4 2001
Serial No. 09/888,246	Filing Date		Group Ar	2001
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This certificate m deposit account.  CDGAR E. SPIELMAN, Reg. No. 25,929 Albemarle Corporation Law Department 51 Florida Street	Signature JR.	Dated: 08/22/01		

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ATTY. DOCKET NO.:FR-6842-C

SERIAL NO.09/888,246

APPLICANTS: JOHN C. PARKS, ET AL.

FILING DATE: 06/22/2001

GROUP: 1616

### REFERENCE DESIGNATION

### **U. S. PATENT DOCUMENTS**

Examiner INITIAL				DOCU	MENT	NUMBI	ER		DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	АА	R	E	3	0	7	7	8	10/81	Hahn, et al.	241	18	
	АВ	R	Ε	3	2	6	0	6	02/88	Stepniczka	568	779	
	AC	2	o	2	2	6	3	4	11/35	Britton, et al.	260	150	
	AD	2	0	3	3	6	1	2	03/36	Clark, et al.	260	161	
	AE	2	2	4	0	7	1	8	05/41	Schiffman, et al.	209	6	
	AF	2	2	4	4	2	8	4	06/41	Britton, et al.	260	649	
	AG	2	5	5	6	7	2	1	06/51	Gislon, et al.	260	33.8	
	АН	2	6	0	7	8	0	2	08/52	Britton, et al.	260	544	
	AI	2	9	7	9	6	3	7	04/61	Welna	315	84	
	LA	3	0	2	9	2	9	5	04/62	Thermet, et al.	260	649	

### FOREIGN PATENT DOCUMENTS

		C	OCUM	ENT N	IUMBE	R		DATE	COUNTRY	CLASS	SUBCLASS	TRANS YES	SLATION NO
AK		7	0	8	2	0	9	04/65	Canada	260	649		
AL	0	2	6	5	1	5	o	04/88	EPO				
АМ	0	3	4	7	1	1	6	1 2/89	EPO				
AN	0	4	4	7	1	5	2-A1	09/91	EPO				
AO	0	4	6	9	5	6	9-A2	02/92	EPO				

### OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	АР	Green, et al., "Flame Retarding Thermoplastic Styrenic Resins", Fire Retardants: Proceedings of 1974 International Symposium Un
		Flammability and Fire Retardants, Comwall, Ontario Canada, May 1974, Technomic Publishing Co., Inc., pp. 68-76
	ρA	Vogel, Dr. Hans, "Flammfestmachen von Kunststoffen", Technologie Der Makromolekularen Chemie, p. 49 (no translation)
		1966
	AR	Gassman, et al., "The 3-(Fluoromethyl)phenyl Group. A Useful Moiety for the Study of Solvolysis Reactions with Large Negative p
		Values", The Journal of Organic Chemistry, Volume 47, No. 20, September 1982, pp. 4002-4004
	AS	Inaba, et al., "Highly Reactive Metallic Nickel: Reductive Homocoupling Reagent for Benzylic Mono- and Polyhalides", The Journal
		Of Organic Chemistry, Volume 49, No. 12, June 1984, pp. 2093-2098
EXAMINE	R	DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609: Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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## TECH CENTER 1600/2900 ENTER 1600/2900

ATTY. DOCKET NO.: FR-6842-C SERIAL NO.: 09/888,246 FORM PTO-1449 (Modified) LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE APPLICANTS: JOHN C. PARKS, ET AL. STATEMENT FILING DATE: 06/22/2001 1616 (Use several sheets if necessary) **GROUP:** REFERENCE DESIGNATION **U. S. PATENT DOCUMENTS** Examiner **FILING DATE** INITIAL **DOCUMENT NUMBER** DATE NAME CLASS **SUBCLASS** IF APPROPRIATE AA 6 9 11/62 Sax 260 650 ΑB 3 1 4 1 8 6 0 07/64 Sauer, et al. 260 33.8 AC 3 3 2 9 5 9 02/66 260 Hahn 389 8 6 ΑD 11/66 Jenkner 260 612 3 3 3 1 7 9 7 07/67 260 ΑE Kopetz, et al. 28.5 ΑF 3 6 6 6 9 01/68 Thompson 260 612 4 4 5 2 4 3 1 04/69 AG Burger, et al. 260 2.5 ΑH 3 5 9 6 4 5 07/71 Selwitz 260 650 6 Λ 2 02/72 AI 3 q 3 Brown, et al. 260 2.5 FP 5 2 01/73 Maul, et al. 260 649 R FOREIGN PATENT DOCUMENTS TRANSLATION DOCUMENT NUMBER DATE COUNTRY CLASS SUBCLASS YES NO ΑK 12/71 Fed. Rep. of Germany х 4 8 7 ΑL 6 04/72 Fed. Rep. of Germany х AM 2 4 0 0 4 5 5 02/75 Fed. Rep. of Germany х 2 5 2 9 2 6 04/76 AN Fed. Rep. of Germany Х 2 9 5 06/81 Fed. Rep. of Germany Х OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.) Corey, et al., "Silacarbocycles From Ring Expansion", Journal of Organometallic Chemistry, Volume 210, No. 2, May 1981, pp. 149-161 ΔQ Golounin, "Formation Of Hexabromobenzene In the Bromination Of (C<sub>o</sub>H<sub>s</sub>)<sub>2</sub>X Compounds", translated from Zhurnal Organicheskoi Khimii, Volume 12, No. 8, pp. 1834-1835, August 1976. Original article submitted November 1975 AR Encyclopedia Of Polymer Science And Technology, Volume 7, "Fire Retardancy", p. 3, (1967) AS Kirk-Othmer Encyclopedia Of Chemical Technology, John Wiley & Sons, New York, Third Edition, Volume 10, "Halogenated Flame Retardants", p. 373 (1980)**EXAMINER** DATE CONSIDERED EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609: Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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## TECH CENTER 1600/2900H CENTER 1600/2900

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LISTOF PATENTS AND PUBLICATIONS FOR
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STATEMENT
(Use several sheets if necessary)

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ATTY. DOCKET NO.: FR-6842-C

SERIAL NO.: 09/888,246

APPLICANTS: JOHN C. PARKS, ET AL.

FILING DATE: 06/22/2001

GROUP: 1616

Examiner													FILING DATE
INITIAL			DOC	CUMEN	T NUN	ABER			DATE	NAME	CLASS	SUBCLASS	IF APPROPRIATE
	AA	3	7	3	3	3	6	6	05/73	Burk	260	649 D	
	AB	3	7	5	2	8	5	6	08/73	Nagy, et al.	260	612 R	
	AC	3	7	6	3	2	4	8	10/73	Mitchell	260	649 D	
	AD	3	8	3	3	6	7	4	09/74	Brackenridge	260	649 DP	
	AE	3	8	3	9	1	4	0	10/74	Tyler, et al.	161	175	
	AF	3	8	4	5	1	4	6	10/74	Moore, et al.	260	650 R	
	AG	3	8	5	0	8	8	2	11/74	Underwood, et al.	260	45.75R	
	АН	3	8	8	3	4	8	1	05/75	Kopetz, et al.	260	45.75 B	
	Al	3	9	1	1	0	3	3	10/75	Schaffner, et al.	260	649 R	
	LA	3	9	3	1	0	8	1	01/76	Dany, et al	260	29.1 SB	

### FOREIGN PATENT DOCUMENTS

U.S. PATENT DOCUMENTS

		C	OCUN	MENT N	IUMBE	R		DATE	COUNTRY	CLASS	SUBCLASS	TRANS YES	SLATION NO
AK	3	4	2	2	6	7	3	1 2/85	Fed. Rep. of Germany				х
AL			8	7	7	5	2		German Demo. Rep.				х
АМ			7	3_	5	4	8	06/76	Japan				х
AN			3	9	6	3	9	03/77	Japan				х
AO		1	1	2	8	2	2	10/78	Japan			х	

### OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AP _	Kirk-Othmer Encyclopedia Of Chemical Technology, John Wiley & Sons, Third Edition, Volume 23, "UV Stabilizers",
	pp. 615-627, (1983)
AQ.	An American National Standard, "ASTM Designation: E 308 - 85 - Standard Method for Computing The Colors Of Objects By
	Using The CIE System", pp. 242 - 289 , (1985)
AR	An American National Standard, "ASTM Designation: D 1925 - 70 (Reapproved 1988) - Standard Test Method for Yellowness
	Index of Plastics", pp. 163 - 165
AS	Japanese Patent Abstract 60-166333(A), Patent Abstracts Of Japan, Vol. 10, Number 13(C-323) [2070], January, 1986

**EXAMINER** 

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609: Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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FORM PTO-1449 (Modified)
LIST OF PATENTS AND PUBLICATIONS FOR
RADIANT'S INFORMATION DISCLOSURE
STATEMENT

(Use several sheets if necessary)

ATTY. DOCKET NO.: FR-6842-C SERIAL NO. 99888,246

APPLICANTS: JOHN C. PARKS, ET AL.

FILING DATE. 06/22/2001 GROUP:

GROUP: 1616

Examiner		1									ļ		FILING	DATE
NITIAL			ı -	DOCU	MENT	NUMB	R		DATE	NAME	CLASS	SUBCLASS	IF APPRO	
	AA	3	9	5	9	3	8	7	05/76	Brackenridge	260	612 R		
	AB	3	9	6	2	1	6	4	06/76	Praetzel, et al.	260	28.5 B		_
	AC	3	9	6	5	1	9	7	06/76	Stepniczka	260	623 H		
	AD	3	9	6	9	3	8	7	07/76	Merki	260	448 R		
	AE	3	9	7	1	7	5	8	07/76	Anderson, et al.	260	45.9 KA		
	AF	4	0	2	4	0	9	2	05/77	Sonnenberg	260	2.5 FP		
	AG	4	0	6	7	9	3	0	01/78	Versnel, et al.	260	880 R		
	АН	4	0	7	2	6	5	8	02/78	Okamoto, et al.	260	49		
	ΑI	4	1	3	0	6	0	5	12/78	Barkhuff, Jr.	260	876 R		
	AJ	4	1	5	0	0	6	6	04/79	Kudo, et al.	260	876 R		
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	AK		1	1	6	3	3	2	10/78	Japan				х
	AL		1	1	6	3	3	3	10/78	Japan				×
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	AN			4	4	6	2	3	04/79	Japan			х	
-	AO			7	0	0	5	9	06/81	Japan				х
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	АР		Japa	anese i	Patent	Abstra	ct 57-(	045114, ,	American Ch	emical Society, 1990				
	AQ		Kers	cher, i	Or. Utte	o, "Bro	mine-C	Containing		ng Agents For Fireproofing	Of Plastics", t	ranslated from:	Kunststoffje	ournal.
								, pp. 1 -		- <u>-                                  </u>				
	AR		† — —	-					(1952)					
<del></del>	AS		Che	mical /	bstrac	ts, Vol	. 98, 1	1983, 98:	:160866p					
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## TECH CENTER 1600/2900 CENTER 1600/2900

449 (Modified) LIST OF TENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)

ATTY. DOCKET NO .: FR-6842-C

SERIAL NO 09/888,246

APPLICANTS: JOHN C. PARKS, ET AL.

06/22/2001 1616 FILING DATE: GROUP:

REFERENCE DESIGNATION
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### **U. S. PATENT DOCUMENTS**

Examiner							-						FILING DATE
INITIAL			DOC	CUMEN	IT NUM	<b>MBER</b>		,	DATE	NAME	CLASS	SUBCLASS	IF APPROPRIATE
	AA	4	2	2	3	. 1	6	9	09/80	Barda	568	645	
	АВ	4	2	3	0	8	2	1	10/80	Bertrand	521	95	
_	AC	4	2	7	6	1	8	9	06/81	Jackisch	252	404	
	AD	4	2	8	7	3	7	3	09/81	Garman, et al.	568	639	
	AE	4	3	0	1	0	5	8	11/81	Neukirchen, et al.	260	40 R	
	AF	4	3	2	7	2	2	7	04/82	Ayres, et al.	568	639	
	AG	4	3	4	8	3	0	6	09/82	Mischutin	252	608	
	АН	4	3	9	6	7	3	0	08/83	lmahashi	523	200	
	AI	4	4	4	2	0	1	7	04/84	Blumberg, et al.	252	301.21	
	LA	4	5	0	5	8	5	0	03/85	Pearson	252	609	

### FOREIGN PATENT DOCUMENTS

		OCUM	IENT N	IUMBE	R		DATE	COUNTRY	CLASS	SUBCLASS	TRANS YES	SLATION NO
AK		7	o	0	6	0	06/81	Japan			х	
AL		9	5	1	4	3	04/89	Japan				х
AM	1	4	6	9	2	6	06/89	Japan				х
AN	2	3	2	8	2	5	10/91	Japan				х
AO	9	8	1	8	3	3	01/65	United Kingdom				

### OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

АР	84852-53-9, CAS Registry Handbook, 632RL, Supplement Part 1 (1983)
ΔQ	U.S. Patent Application Serial No. 06/758,967, filed 07/25/85, entitled "Polybrominated Diphenylethane Fire Retardant",  Mossaad, Amgad S., et al.
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**EXAMINER** 

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609: Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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### TECH CENTER 1600/2900 TECH CENTER 1600/2900

FORM 20-1449 (Modified)
LIST 69 PATENTS AND PUBLICATIONS FOR
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STATEMENT
(Use several sheets if necessary)

ATTY. DOCKET NO.: FR-6842-C S

SERIAL NO.: 09/888,246

APPLICANTS: JOHN C. PARKS, ET AL.

FILING DATE: 06/22/2001 GROUP: 1616

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	AA	4	5	2	1	6	3	3	06/85	Pedjac	568	639		
	АВ	4	5	3	2	2	8	7	07/85	Bill, et al.	524	343		
	AC	4	5	6	9_	5	9	6	02/86	Romanchik, et al.	366	107		1
	AD	4	6	3	9	4	8	1	01/87	Giles, Jr.	524	128		
	AE	4	6	3	9	4	8	6	01/87	Liu	524	409		
	AF	4	6	5	9	0	2	1	04/87	Bark, et al.	241	18		
	AG	4	6	6	6	9	4	7	05/87	Brichta, et al.	521	79		
	АН	4	7	1	7	7	7	6	01/88	Brackenridge, et al.	568	637		
	AI	4	7	4	0	6	2	9	04/88	Brackenridge, et al.	568	639		
	AJ	4	7	4	1	8	6	4	05/88	Avakian, et al.	252	609		
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	AK		9	9	1	0	6	7	05/65	United Kingdom				
	AL	1	4	1	1	5	2	4	10/75	United Kingdom				
	АМ	1	4	7	2	3	8	3	05/77	United Kingdom				
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### TECH CENTER 1600/2900 CENTER 1600/2900

FORM 17449 (Modified)
LIST ATENTS AND PUBLICATIONS FOR PADAM CANT'S INFORMATION DISCLOSURE
STATEMENT

ATTY. DOCKET NO.: FR-6842-C | SERIAL NO.: 09/888,246

APPLICANTS: JOHN C. PARKS, ET AL.

	TATEME	ENT								APPLICANTS: JOHN C.				
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	AA	4	7	5	1	2	6	0	06/88	Kress, et al.	524	130		
	АВ	4	7	7	8	9	3	3	10/88	McKinnie, et al.	568	639	_	
	AC	4	8	1	4	5	2	5	03/89	Rule, et al.	570	203		
	AD	4	8	4	9	5	4	7	07/89	Stollar, et al.	568	639		
	AE	4	8	6	5	8	8	0	09/89	Silbermann, et al.	427	160		
	AF	4	8	7	1	8	8	2	10/89	Stollar, et al.	568	639		
	AG	4	9	2	5	9	9	4	05/90	Mais, et al.	570	210		
	АН	4	9	8	3	7	8	1	01/91	Desmurs, et al.	570	210		
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	AJ	5	0	0	3	1	1	7	03/91	Hussain	570	210		
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FOR TO-1449 (Modified) SERIAL NO.:09/888,246 ATTY. DOCKET NO .: FR-68422C ADEMISS OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE APPLICANTS: JOHN C. PARKS, ET AL. STATEMENT (Use several sheets if necessary) 06/22/2001 FILING DATE: GROUP: 1616 U. S. PATENT DOCUMENTS REFERENCE DESIGNATION Examiner FILING DATE SUBCLASS INITIAL **DOCUMENT NUMBER** DATE NAME CLASS IF APPROPRIATE AA 8 04/91 Hussain 570 208 5 7 7 8 07/91 AB 0 3 O Ransford 570 208 5 6 2 6 07/91 AC 0 3 1 Rinehart, et al. 524 141 5 7 AD 0 3 9 2 9 08/91 Brackenridge, et al. 524 412 5 0 4 6 8 7 08/91 McKinnie, et al. ΑE 1 568 592 7 ΑF 5 5 4 0 3 10/91 Hussain 524 412 Brackenridge, et al. AG 5 0 5 5 2 3 5 10/91 252 609 5 0 ΑН 0 5 9 6 5 10/91 Goettsch, et al. 524 412 5 0 7 7 3 3 4 12/91 ΑI Hussain 524 469 5 2 4 4 9 6 06/92 Templeton, et al. 570 210 FOREIGN PATENT DOCUMENTS TRANSLATION DOCUMENT NUMBER DATE COUNTRY SUBCLASS CLASS YES NO ΑK AL AM ΑN AO OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.) AP ρA AR AS **EXAMINER DATE CONSIDERED** EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609: Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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### TECH CENTER 1600 POCENTER 1600/2900

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**EXAMINER** 

ATTY. DOCKET NO.: FR-6842-C SERIAL NO.: 09/888,246

APPLICANTS: JOHN C. PARKS, ET AL.

FILING DATE: 06/22/2001 GROUP: 1616

#### **STATEMENT** (Use several sheets if necessary) FILING DATE: 06/22/2001 GROUP: 1616 U. S. PATENT DOCUMENTS REFERENCE DESIGNATION FILING DATE Examiner DATE INITIAL **DOCUMENT NUMBER** NAME CLASS **SUBCLASS** IF APPROPRIATE 5 06/93 AA Doucet, et al. 523 351 04/94 5 3 2 8 Hussain 570 185 7 4 06/94 Ransford, et al. AC 5 3 2 4 8 570 208 10/95 Mack, et al. ΑD 5 4 5 7 2 4 570 206 ΑF AG ΑH ΑI FOREIGN PATENT DOCUMENTS TRANSLATION DOCUMENT NUMBER DATE COUNTRY **CLASS SUBCLASS** YES NO ΑK ΑĽ AN ΑO OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.) AP ΑQ AR AS

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